

## Amendments to the Claims

This list of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

Claim 1 (currently amended): A switch fabric network for routing packets, wherein each of said packets comprise packet field data, comprising: a switch having a plurality of ports, wherein said switch receives a packet on one of said plurality of ports, and based ~~solely~~ only on said packet field data and the number of said ports, transmits said packet on a second one of said plurality of ports.

Claim 2 (currently amended): ~~A system of claim 1 wherein~~ A switch fabric network for routing packets, wherein each of said packets comprise packet field data, said packet field data comprising a turn pool, wherein said turn pool comprises a plurality of turn values, and a turn value indicates the position of ~~said a~~ a second port relative to ~~said a first port,~~ said network comprising: a switch having a plurality of ports, wherein said switch receives a packet on said first port of said plurality of ports, and based on said packet field data and the number of said ports, transmits said packet on a said second port of said plurality of ports.

Claim 3 (cancelled)

Claim 4 (currently amended): A system of claim ~~1~~ 2 wherein said packet field data is comprised of a credit length, a

bit count, ~~a turn pool~~, an operation, a Path Identifier (PID) index, a Maximum Transmission Unit (MTU) and an Extended Unique Identifier (EUI).

Claims 5-12 (cancelled)

Claim 13 (previously presented): The system of claim 2 wherein said packet field data further comprises a bit count.

Claim 14 (currently amended): A switch for routing a packet, wherein said packet comprises packet field data, comprising:

a plurality of ports;

means for receiving said packet on a first of said ports;

means for determining ~~the appropriate~~ a second port on which to transmit said received packet, using only said packet field data and the number of said ports;

and

means for transmitting said packet on said ~~determined~~ appropriate second port.

Claim 15 (currently amended): ~~The switch of claim 14,~~  
~~wherein~~ A switch for routing a packet, wherein said packet  
comprises packet field data, said packet field data  
comprising a turn pool, wherein said turn pool comprises a  
plurality of turn values, and a turn value indicates the  
position of ~~said determined~~ a second port relative to ~~said~~  
a first port, said switch comprising:

a plurality of ports;

means for receiving said packet on said first port of  
said plurality of ports;  
means for determining said second port on which to  
transmit said received packet, using said packet field  
data and the number of said ports; and  
means for transmitting said packet on said second  
port, where said determining means utilizes said turn  
pool to select said ~~appropriate~~ second port.

Claim 16 (currently amended): The switch of claim 15,  
wherein said packet field data further comprises a bit  
count and said determining means utilizes said bit count to  
select said ~~appropriate~~ second port.

Claim 17 (currently amended): The switch of claim ~~14~~ 15,  
further comprising means to modify said packet field data  
prior to transmitting said packet.

Claim 18 (currently amended): A method of routing a packet  
from a source to a destination within a fabric having at  
least one switch, said switch having a plurality of ports,  
said method comprising:

encapsulating said packet with a header, wherein said  
header comprising packet field data;  
transmitting said encapsulated packet from said source  
to said switch;  
receiving said encapsulated packet by said switch on a  
first of said ports;  
determining ~~an appropriate output~~ a second port using  
only said packet field data and the number of said  
ports; and

transmitting said encapsulated packet from said switch via said ~~appropriate~~ second output port.

Claim 19 (currently amended): The method of claim 18 further comprising modifying said packet field data prior to transmitting via said ~~appropriate output~~ second port.

Claim 20 (currently amended): ~~The method of claim 18,~~  
~~whereby~~ A method of routing a packet from a source to a destination within a fabric having at least one switch, said switch having a plurality of ports, said method comprising:

encapsulating said packet with a header, wherein said header comprises packet field data, said packet field data ~~comprises~~ comprising a turn pool, wherein said turn pool comprises a plurality of turn values, and a turn value indicates the position of said ~~appropriate output~~ a second port relative to ~~said~~ a first port;  
transmitting said encapsulated packet from said source to said switch;  
receiving said encapsulated packet by said switch on a said first port of said plurality of ports;  
determining said second port using said packet field data and the number of said ports; and  
transmitting said encapsulated packet from said switch via said second port.

Claim 21 (previously presented): The method of claim 20 whereby said packet field data further comprises a bit count.

Claim 22 (currently amended): The method of claim ~~19~~  
~~whereby said packet field data comprises a turn pool,~~  
~~wherein said turn pool comprises a plurality of turn~~  
~~values, and a turn value indicates the position of said~~  
~~appropriate output port relative to said first port~~ 20  
further comprising modifying said packet field data prior  
to transmitting via said second port.

Claim 23 (previously presented): The method of claim 22  
whereby said packet field data further comprises a bit  
count.

Claim 24 (currently amended): The method of claim ~~18~~ 20,  
wherein said fabric comprises a plurality of switches, and  
said method further comprises repeating said receiving,  
determining and transmitting steps until said packet  
reaches said destination.

Claim 25 (previously presented): The method of claim 21,  
further comprising using said turn pool and bit count of  
said packet received by said destination to create a second  
header, used by said destination, to encapsulate a second  
packet to be routed from said destination to said source.

Claim 26 (previously presented): The method of claim 23,  
further comprising using said turn pool and bit count of  
said packet received by said destination to create a second  
header, used by said destination, to encapsulate a second  
packet to be routed from said destination to said source.